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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/826,010	04/05/2001	Seung-Beom Choi	P56355	3874

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EXAMINER

TRAN, TRANGU

ART UNIT	PAPER NUMBER
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2614

DATE MAILED: 03/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/826,010

Applicant(s)

CHOI, SEUNG-BEOM

Examiner

Trang U. Tran

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 29 December 2003.  
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-22 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-22 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_.  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_.

**DETAILED ACTION**

***Response to Arguments***

1. Applicant's arguments with respect to claims 1-22 have been considered but are moot in view of the new ground(s) of rejection.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al. (US Patent No. 6,118,926) in view of Nakajima (US Patent No. 5,410,369).

In considering claim 1, Kim et al discloses all the claimed subject matter, note 1) the claimed a central processing unit driving an operating system is met by the microprocessor 11 (Fig. 1, col. 2, line 65 to col. 3, line 3), 2) the claimed a television receiver part receiving external television signals is met by the receiver 60 and the tuner 20 (Fig. 1, col. 3, lines 4-25), 3) the claimed a storage unit storing the television signals is met by the recording/playback apparatus 25 (Fig. 1, col. 3, lines 11-18), 4) the claimed a reserve-recording set-up part setting up reserve-recording conditions for the television signals, the reserve-recording conditions including a time to start recording is met by when the reservation key 52 is operated, the system controller 10 simultaneously sets up or initializes preprogramming information including a recording start time, a recording channel, a tape speed, and a recording end time (Fig. 2, col. 3,

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line 46 to col. 4, line 32), 5) the claimed a record-controlling part storing the television signals in said storage unit according to the set-up reserve-recording conditions is met by the RAM 13 (Fig. 3, col. 4, line 36 to col. 6, line 48), and 6) the claimed a power control part controlling power supplied in a normal mode and in a power saving mode, and switching the power saving mode to the normal mode according to the set-up reserve-recording conditions when the time for reserve-recording approaches is met by at step S16, the desired broadcast program is preprogrammed based on all of the adjusted preprogramming information and is stored in the RAM 13 for the preprogramming recording, and the VCR enters into a stand-by mode until the recording starts (Figs. 5-8, col. 6, lines 36-48 and col. 7, lines 50-55).

However, Kim explicitly does not disclose the claimed a power being supplied to said central processing unit in the normal mode, the power not being supplied to said central processing unit in the power saving mode.

Nakajima teaches that in this power-OFF condition, if the power ON/OFF key 14 of the keyboard 8 is turned on the CPU 4 performs program reservation processing as show in Fig. 4, that is, in the power-OFF condition, the CPU 4 serves as a determining means and determines whether the power ON/OFF key 14 is depressed to switch on the power source (step S1), if the power source is switched on, the CPU 4 supplies a control signal C (e.g., a signal of "H") instructing an ON operation to the power source 9, upon the receiving the control signal C instructing an ON operation, the power source 9 supplies power to the receiving unit 2, the output unit 3, and the like (Figs.1 and 4, col. 7, line 55 to col. 9, line 49).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the power switch as taught by Nakajima into Kim et al's system in order to provide the receiving apparatus capable of saving power consumption of the overall apparatus.

In considering claim 2, the combination of Kim et al and Nakajima disclose all the limitations of the instant invention as discussed in claim 1 above, except for providing the claimed said reserve-recording set-up part comprising a password skipping unit not requiring a user to enter a password when the power saving mode is changed to the normal mode, when the password was previously supplied to the computer system. The capability of using a password to access the video system is old and well known in the art. Therefore, the Official Notice is taken. It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the old and well known password entry into the combination of Kim et al and Nakajima's system in order to prevent an unauthorized user to access the video system of the combination of Kim et al and Nakajima.

In considering claim 3, the claimed said power control part changing the power mode of said central processing unit from the normal mode to the power saving mode after the reserve recording conditions are set up through said reserve-recording set-up part is met by at step S16, the desired broadcast program is preprogrammed based on all of the adjusted preprogramming information and is stored in the RAM 13 for the preprogramming recording, and the VCR enters into a stand-by mode until the recording starts (Figs. 5-8, col. 6, lines 36-48 and col. 7, lines 50-55) of Kim et al.

In considering claim 4, the claimed said reserve-recording set-up part comprising a mode selection window display for selecting the power mode of said central processing unit after the reserve-recording conditions are set up, said power control part switching the power mode of said central processing unit according to selection of the power mode with said mode selection window display is met by Figs. 9A and 9B, col. 4, line 61 to col. 5, line 4 and col. 7, lines 56-61) of Kim et al.

In considering claim 5, the claimed said power control part switching the power mode of said central processing unit from the normal mode to the power saving mode after the television signals are stored in said storage unit is met by the CPU 4 and the power source 9 (Figs.1 and 4, col. 7, line 55 to col. 9, line 49) of Nakajima.

In considering claim 6, the claimed said record-controlling part comprising a mode selection window display for selecting the power mode of said central processing unit after the setting up of the reserve-recording conditions is performed is met by Figs. 9A and 9B, col. 4, line 61 to col. 5, line 4 and col. 7, lines 56-61) of Kim et al.

In considering claim 7, the claimed said power control part switching the power mode of said central processing unit from the power saving mode to the normal mode, when the power is supplied to the computer system by a user when the computer system is in the power saving mode is met by the CPU 4 and the power source 9 (Figs.1 and 4, col. 7, line 55 to col. 9, line 49) of Nakajima.

In considering claim 8, the claimed said reserve-recording part comprising an identification window display for identifying the reserve-recording conditions when the power saving mode of said central processing unit is changed to the normal mode is

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met by an OSD (on-screen display) circuit 35 (Figs. 1 and 9, col. 3, lines 19-25 and col. 4, line 61 to col. 5, line 4) of Kim et al.

In considering claim 9, the claimed said identification window display performing at least one action selected from among a cancellation, modification, and approval of the set-up reserve recording conditions is met by Figs. 9A and 9B, col. 4, line 61 to col. 5, line 4 and col. 7, lines 56-61) of Kim et al.

In considering claim 10, the combination of Kim et al and Nakajima disclose all the limitations of the instant invention as discussed in claim 1 above, except for providing the claimed said storage unit comprising one selected from among a hard disk drive, a recordable compact disk drive, and a recordable digital versatile disk drive. The capability of using storage unit comprising one selected from among a hard disk drive, a recordable compact disk drive, and a recordable digital versatile disk drive is old and well known in the art. Therefore, the Official Notice is taken. It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the old and well known storage unit comprising one selected from among a hard disk drive, a recordable compact disk drive, and a recordable digital versatile disk drive into the combination of Kim et al and Nakajima's system in order to decrease the time in accessing the desired video signal because of random access capability of the well known disks.

Claims 11-13 are rejected for the same reason as discussed in claims 1-3, respectively.

Claim 14 is rejected for the same reason as discussed in claim 6.

Claim 15 is rejected for the same reason as discussed in claim 5.

In considering claim 16, the claimed further comprising displaying a mode selection window display for selecting the power mode of the central processing unit, after said storing of the television signals is performed is met by the CPU 4 and the power source 9 (Figs.1 and 4, col. 7, line 55 to col. 9, line 49 and col. 10, line 30 to col. 1,1 line 42) of Nakajima.

Claims 17-18 are rejected for the same reason as discussed in claims 7-8, respectively.

Claim 19 is rejected for the same reason as discussed in claim 1.

Claim 20 is rejected for the same reason as discussed in claim 3.

In considering claim 21, the claimed further comprising switching the power mode of the central processing unit from the normal mode to the power saving mode after said recording of the television signals is met by the CPU 4 and the power source 9 (Figs.1 and 4, col. 7, line 55 to col. 9, line 49) of Nakajima.

Claim 22 is rejected for the same reason as discussed in claim 7.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Trang U. Tran** whose telephone number is **(703) 305-0090**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **John W. Miller**, can be reached at **(703) 305-4795**.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks



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Washington, D.C. 20231


**or faxed to:**

**(703) 872-9314 (for Technology Center 2600 only)**

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

TT  
March 22, 2004

  
**TRANG TRAN**  
**PATENT EXAMINER**